

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
17 March 2005 (17.03.2005)

PCT

(10) International Publication Number
WO 2005/023925 A3

(51) International Patent Classification⁷: C08K 5/10, 5/103, C08L 67/02

(21) International Application Number: PCT/GB2004/003793

(22) International Filing Date: 7 September 2004 (07.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 0321131.5 10 September 2003 (10.09.2003) GB

(71) Applicant (for all designated States except US): **COLORMATRIX EUROPE LIMITED** [GB/GB]; Units 9-11, Unity Grove, Knowsley Business Park, Knowsley, Merseyside L34 9GT (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TATTUM, Steven, Burgess** [GB/GB]; Colormatrix Europe Limited, Units 9-11, Unity Grove, Knowsley Business Park, Knowsley, Merseyside L34 9GT (GB). **JACKSON, Matthew** [GB/GB]; Units 9-11, Unity Grove, Knowsley Business Park, Knowsley, Merseyside L34 9GT (GB).

(74) Agent: **W.P. THOMPSON & CO.**; Coopers Building, Church Street, Liverpool L1 3AB (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
12 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/023925 A3

(54) Title: SLIP ADDITIVE COMPOSITIONS IN THERMOPLASTIC POLYMER PROCESSING

(57) Abstract: The present invention relates to the use of a fatty acid ester as a slip additive in the production of moulded polyethylene terephthalate articles, to a thermoplastic moulding composition comprising a polyethylene terephthalate and a fatty acid ester selected to be effective for reducing the co-efficient of friction of moulded articles formed from the composition, to a moulded polyethylene terephthalate article comprising a fatty acid ester selected to be effective in reducing the co-efficient of friction of the moulded article, and to a process for producing a moulded thermoplastic article comprising providing a thermoplastic moulding composition comprising polyethylene terephthalate, admixing with the thermoplastic moulding composition at least one fatty acid ester selected to be effective in reducing the co-efficient of friction of the moulded article, heating the composition and moulding the hot composition so as to form a moulded article.